

## SECTION 08 90 00

### LOUVERS

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

- A. Steel louvers.
- B. Aluminum louvers.

##### 1.02 RELATED SECTIONS

- A. Section 07 60 00 - Flashing and Sheet Metal.
- B. Section 07 90 00 – Joint Protection.
- C. Section 09 24 11 - Portland Cement Plaster.
- D. Section 09 91 00 - Painting.

##### 1.03 MEASUREMENT AND PAYMENT

- A. General: Louvers and vents will not be measured separately for payment but will be paid for as part of the Contract lump-sum price for Architectural Work.

##### 1.04 REFERENCES

- A. American Architectural Manufacturers Association (AAMA):
  - 1. AAMA 2605 Voluntary Specifications, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels

##### 1.05 INTERFACE AND COORDINATION

- A. Coordinate the Work of this Section with mechanical Work as required for providing combustion-air, air intake, and exhaust louvers for mechanical equipment.

##### 1.06 SUBMITTALS

- A. General: Refer to Section 01 33 00, Submittal Procedures, and Section 01 33 23, Shop Drawings, Product Data, and Samples, for submittal requirements and procedures.

- B. Shop Drawings: Submit fully detailed Shop Drawings of louvers showing fabrication and installation details.
- C. Product Data: Submit manufacturer's performance data for louvers information on materials and fabrication, coating and colors, and installation instructions.
- D. Samples: Where louvers are indicated to be factory finished, submit manufacturer's standard color chips for selection of color and texture by the Engineer.

## **1.07 QUALITY ASSURANCE**

- A. Design Criteria: Structural supports for louvers and vents shall be designed by the manufacturer to withstand a positive and negative wind load of 30 pounds minimum per square foot.

## **PART 2 PRODUCTS**

### **2.01 STEEL LOUVERS**

- A. Louver Type: Louvers shall be heavy-duty type, manufactured of 16 gauge galvanized steel, of size, section profile, and configuration indicated, 4 inches deep. Include the furnishing of all accessories, frame, sill, anchors, and fasteners as required for a complete installation.
- B. Prime Coat: Louvers shall be bonderized and prime painted with a baked-on epoxy-based resin, corrosion-inhibitive metal primer in accordance with Section 09 91 00, Painting.
- C. Bird Screen: Manufacturer's standard 1/2 inch wire mesh galvanized steel bird screen, mounted in removable frame and finished as specified for louvers.
- D. Fasteners: Stainless steel or other appropriate tempered steel treated with non-corrodible material as approved by the Engineer.

### **2.02 ALUMINUM LOUVERS**

- A. Louver Type: Louvers shall be heavy-duty type, manufactured of 14 gauge aluminum, of size, section profile, and configuration indicated, 4 inches deep. Include the furnishing of all accessories, frame, sill, anchors, and fasteners as required for a complete installation.
- B. Baked-Enamel Finish: All exposed aluminum surfaces shall be finished after fabrication with a satin finish, 70 percent fluoropolymer thermo-setting baked coating system which meets or exceeds the requirements of AAMA 2605. Minimum thickness shall be 1 mil. Color shall be as selected by the Engineer from manufacturer's standard color chart.

- C. Bird Screen: Manufacturer's standard 1/2 inch mesh aluminum bird screen, mounted in removable frame and finished as specified for louvers.
- D. Fasteners: Stainless steel, tempered aluminum, or other appropriate tempered steel treated with non-corrodible material as approved by the Engineer.

### **PART 3 EXECUTION**

#### **3.01 PREPARATION**

- A. Check site dimensions affecting this work. Ensure openings affecting this work are properly prepared and that flashings are correctly located to divert moisture to the exterior.

#### **3.02 INSTALLATION**

- A. Louvers, including bird screen and accessories, shall be installed as indicated and in accordance with the approved Shop Drawings and the louver manufacturer's installation instructions and recommendations.
- B. Louvers shall be completely caulked and sealed around their perimeters with sealant and tape in accordance with Section 07 90 00, Joint Protection.
- C. Exterior louvers and vents, at completion of installation, shall provide rainproof, leakproof service in accordance with Section 07 60 00, Flashing and Sheet Metal.

**END OF SECTION 08 90 00**